

IN THE CLAIMS

1. (Currently Amended) A device according to claim 11, further comprising a coupler which couples said actuator to a point on a human body, wherein said controller drives said actuator to apply a force vector to said point, said force including a rotation. ~~a — coupler which couples said actuator to a point on a human body;
apply a force vector to said point, said force including a rotation.~~

2. (Previously Presented) A device according to claim 1, wherein said force vector includes at least two rotations directions relative to the force vector.

3. (Previously Presented) A device according to claim 1, comprising a second actuator driven by said controller to apply a second force to at least a second point on said body, simultaneously with said force.

4. (Previously Presented) A device according to claim 11, comprising:
a coupler for coupling said actuator to a first point on a human body;
a second actuator that includes a movement mechanism capable of applying a force that interacts with a motion of a patient's limb in a volume of at least 30 cm in diameter, in at least three degrees of freedom of motion of the actuator and capable of preventing substantial motion in any point in any direction in said volume;
a coupler for coupling said second actuator to a second point on a human body; and
wherein said controller drives said actuators to apply different forces to said points using said actuators.

5. (Previously Presented) A device according to claim 4, wherein said first actuator applies a rotation.

6. (Previously Presented) A device according to claim 4, wherein said different points are on a same limb.

7. (Previously Presented) A device according to claim 4, wherein said different points are on different limbs.

8. (Previously Presented) A device according to claim 7, wherein said controller is configured to exercise the two limbs in concert.

9. (Currently Amended) A device according to claim 7, wherein said controller ~~is~~ is configured for copying motion from one limb to the other limb.

10. (Currently Amended) A device according to claim 11 configured to control a position of at least a second point on the limb; and wherein said controller ~~is~~ is configured to reconstruct a value of a bending of at least one joint of said organ from said motion and said position.

11. (Currently Amended) A rehabilitation device, comprising:
an actuator that includes a movement mechanism capable of applying a force that interacts with a motion along a rehabilitation exercise trajectory of a patient's limb in a volume of at least 30 cm in diameter and capable of preventing substantial motion in any point in any direction in said volume;
a support for a patient; ~~and~~
a controller adapted to adjust ~~a~~ the rehabilitation exercise trajectory according to the relative positions of said actuator and at least one of said patient and said support; and,
a compliance mechanism adapted to provide resistance to motion of said actuator away from said trajectory.

12. (Previously Presented) A device according to claim 11, comprising a distance sensor for determining said relative positions.

13. (Previously Presented) A device according to claim 11, comprising an imaging sensor for determining said relative positions.

14. (Previously Presented) A device according to claim 11, wherein said controller relates to the relative placement of said patient and said actuator.

15. (Previously Presented) A device according to claim 11, wherein said controller assumes the relative positions differ only in two dimensions.

16. (Previously Presented) A device according to claim 11, comprising a pointer which indicates a desired patient placement.

17. (Previously Presented) A device according to claim 11, wherein said controller is configured to use said actuator to determine said relative placement.

18. (Previously Presented) A device according to claim 11, wherein said controller is configured to use said actuator to indicate a desired relative placement.

19. (Previously Presented) A device according to claim 11, wherein said controller is configured to adjust said exercise on the fly, during an exercise session and in response to patient movement.

20. (Previously Presented) A rehabilitation device according to claim 11, comprising:

a memory storing therein a correspondence between exercises and payment codes;
wherein said controller is adapted to generate a report including a code from said memory corresponding to said exercise.

21. (Currently Amended) A rehabilitation device according to claim 11, further comprising:

~~at least one actuator adapted to support motion of a body part;~~
at least one sensor associated with the actuator and measuring said motion; ~~and~~ wherein
~~a the controller which~~ analyses said measured motion and generates a measure of quality of motion and ~~which~~ modifies a rehabilitation plan responsive to said quality of motion measure.

22. (Previously Presented) A device according to claim 21, wherein the controller modifies a selection of future exercises according to a measured quality of motion.

23. (Previously Presented) A device according to claim 21, wherein the controller modifies a selection of parameters for future exercises according to a measured quality of motion.

24. (Previously Presented) A device according to claim 21, wherein the quality of motion measure used is defined as the degree of matching to a $2/3$ power law.

25. (Previously Presented) A device according to claim 11, wherein said controller is configured to:

- cause a person to carry out at least one exercise;
- estimate a mental state of said person from a result of said at least one exercise; and
- automatically select at least one second exercise according to said estimation.

26. (Previously Presented) A device according to claim 25, wherein said controller estimates a mental state using a comparing of performance between two exercises, one or which is expected to elicit a higher compliance.

27. (Previously Presented) A device according to claim 25, wherein said controller estimates a mental step using a comparing of performance within an exercise, using the maximum ability of the patient as a base line against which variation can be determined.

28. (Previously Presented) A device according to claim 25, wherein said estimating is automatic.

29. (Previously Presented) A device according to claim 11, wherein said controller is configured to:

- determine a patient's ability to perform a motor task;
- determine a patient's ability to perform a non-motor task; and
- automatically select an exercise or parameters of an exercise for the patient according to said determinations.

30. (Previously Presented) A device according to claim 29, wherein said controller is configured to select using a matching of an instruction or feedback modality to a perceptive ability.

31. (Previously Presented) A device according to claim 29, wherein said controller is configured to selected using a matching of an instruction or feedback modality to a cognitive ability.

32. (Previously Presented) A device according to claim 29, wherein said controller is configured to select an exercise or series of exercises designed to rehabilitate both of said motor and said non-motor abilities.

33. (Previously Presented) A device according to claim 29, wherein said exercise rehabilitates visual-motor coordination.

34. (Previously Presented) A device according to claim 11, wherein said actuator includes a tip which said actuator moves to a spatial location and wherein said controller is configured to

instruct a patient to apply force against said tip, wherein said actuator provides a compliant resistance to said force.

35. (Previously Presented) A device according to claim 34, wherein said controller is configured to select the resistance according to the spatial location.

36. (Previously Presented) A device according to claim 11, wherein said controller is configured to adjust a force applied during said exercise, based on one or more patient characteristics.

37. (New) A device according to claim 11, wherein the compliance mechanism comprises at least one brake.

38. (New) A device according to claim 11, wherein the compliance mechanism comprises at least one resilient element.

39. (New) A device according to claim 11, wherein the compliance mechanism is adapted to have variable compliance for at least one of different rehabilitation exercises or within a single rehabilitation exercise.